

### CLAIMS

1. A portable welder, comprising a box-like body (11) that contains a welding generator (12) functionally connected to an electrode supporting clamp (17), to a ground clamp (20) and to an electric power supply system, 5 said portable welder (10) being characterized in that a handle (16) for gripping and orienting said welder (10) protrudes from said box-like body (11), said electrode supporting clamp (17) being rigidly coupled to said handle (16).

2. The welder according to claim 1, characterized in that said handle 10 (16) cantilevers out from said box-like body (11), said electrode supporting clamp (17) being arranged on the free end of said handle (16).

3. The welder according to one or more of the preceding claims, characterized in that said electrode supporting clamp (17) comprises a jaw constituted by said handle (16) and a second jaw pivoted to said handle 15 (16).

4. The welder according to one or more of the preceding claims, characterized in that said welding generator (12) comprises an insulated AC/DC converter (24) associated with an EMC filter (25).

5. The welder according to one or more of the preceding claims, 20 characterized in that said welding generator is associated with cooling means (13).

6. The welder according to claim 5, characterized in that said cooling means (13) comprise a motorized fan (14), which is fixed to said body (11) at an intake (15), a corresponding outlet (15a) for the cooling air stream 25 being formed in said body (11).

7. The welder according to one or more of the preceding claims, characterized in that a switch (23) for switching the functions of the welder (10) is functionally associated with said welding generator (12) and is arranged externally on said box-like body (11).

30 8. The welder according to one or more of claims 1 to 6, characterized

in that a switch (23) for switching the functions of the welder (10) is functionally associated with said welding generator (12) and is arranged externally on said handle (16).